Exposition Style

As a pedagogical device for describing functions such as the one below

\[
\begin{array}{c}
\text{+-----------------} \\
\text{/:} \\
\text{/:} \\
\text{/:} \\
\text{/:} \\
\text{/:} \\
\text{/:} \\
\text{-----------} \\
\text{a}
\end{array}
\]

where two formulae, f1 and f2, are necessary for adjoining domains but
the function is continuous at the boundary point, I usually write the
description in the form

\[
f(x) = f1(x) \text{ for } x =< a \\
f(x) = f2(x) \text{ for } x >= a
\]

The astute reader will note that the domains overlap, but that
f1(a) = f2(a), so no semantic ambiguity obtains.