chain-consistent-out-continuity[13,45]

$\forall es$:ES, Cmd:Type, In:AbsInterface(Cmd), $isupdate$:($Cmd \to \mathbb{B}$), Sys, Out:AbsInterface(Top).
(E(In) $\subseteq$r E(Sys))
$\Rightarrow$ ($\forall f$:sys-antecedent(es;Sys).
   ($\forall e$:E(In). $f(e) = e \in$ E)
   $\Rightarrow$ ($\forall chain$:(E(Sys)$\to$(Id List)).
     chain-consistent(f;$chain$)
     $\Rightarrow$ ($\forall x$, y:E(Sys).
       x is $f*(y)$
       $\Rightarrow$ (E(Out) $\subseteq$r E(Sys))
       $\Rightarrow$ ($\forall e'$:E(In).
         ($\uparrow$($isupdate(In(e'))$))
         $\Rightarrow$ ($\exists z$:E(Sys). ($y \leq$loc z & ($\uparrow(z \in_b Out)$))))
         $\Rightarrow$ loc(x) $<<$ loc(e')
         $\Rightarrow$ ($\exists e$:E(Sys)
            (loc(e) = loc(e') $\in$ Id
            & ($\neg$(loc($f(e)$) = loc(e) $\in$ Id))
            & e is $f*(y)$
            & x is $f*(e)$)))))))