fun-path-append[11,40]

$\forall T$:Type, f:($T \to T$), L_1, L_2:(T List), x, y, z:T.
$z = f*(x)$ via L_1 @ [y / L_2] $\iff$ {$y = f*(x)$ via [y / L_2] & $z = f*(y)$ via L_1 @ [y]}

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http://www.nuprl.org/FDLcontent/p0_963683_/p39_930774_{fun-path-append}.html